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## SECTION 1: Identification of the substance/mixture and of the company

### Product Identifier

Product Name: SiSiB® PC4810

### Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For industrial use

### Details of the supplier of the safety data sheet

#### Company

Nanjing SiSiB Silicones Co., Ltd.  
Guanghua Sci & Tech Industrial Zone,  
No. 104, Guanghua Road, Nanjing 210007, P.R.China  
Email: SDS@SiSiB.com

Emergency Telephone Number: +86-25-8468-0091

## SECTION 2: Hazardous identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2	H315
Skin Sens. 1B	H317
Aquatic Chronic 2	H411

### Label elements

#### Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word

Warning

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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P302 + P352

IF ON SKIN: Wash with plenty of water.

P333 + P313

If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

P391

Collect spillage.

P501

Dispose of contents/container in corroding with local regulation.

**Other hazards**

Not available

**SECTION 3: Composition/information on ingredients****Substances****Ingredient(s):**

Chemical Name	CAS No.	EC No.	Concentration
Triisopropylsilyl acrylate	157859-20-6	—	99.00%
Other impurities in total	N/A	N/A	1.00%

**SECTION 4: First aid measures****Description of first aid measures****General advice**

In all cases of doubt, or when symptoms persist, seek medical attention.

**If inhaled**

Move exposed person to fresh air. Symptomatic treatment. In case of indisposition seek medical advice.

**In case of skin contact**

Wash the contaminated skin with running water and detergent.

**In case of eye contact**

Immediately flush eyes with plenty of water. Seek medical attention.

**If swallowed**

Symptomatic treatment. In case of indisposition seek medical advice.

**Most important symptoms and effects, both acute and delayed**

May cause an allergic skin reaction. Causes skin irritation.

**Indication of any immediate medical attention and special treatment needed**

If skin irritation or rash occurs, get medical advice/attention.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Water, dry powder, foam and carbon dioxide may be used.

**Unsuitable extinguishing media**

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Not available.

**Special hazards arising from the substance or mixture**

Product arising from burning: Silicon dioxide, carbon monoxide and carbon dioxide.

**Advice for firefighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures****For non-emergency personnel:**

Use personal protective equipment. Avoid vapor formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to section 8 of SDS for personal protection details.

**For emergency responders:**

Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated.

**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

**Methods and materials for containment and cleaning up**

Wear suitable protective clothing. Sweep up, for liquids absorb using a suitable absorbent material (eg. kieselguhr, sand, saw dust etc). Transfer to labelled containers and dispose of by incineration in accordance with local regulations.

Wash spill site with water. Prevent release to water courses.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Protective measures:**

Avoid contact with skin and eyes. Avoid formation of vapor. Provide appropriate exhaust ventilation at places where vapor is formed. Normal measures for preventive fire protection.

**Advice on general occupational hygiene:**

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities**

The substance should be stored in sealed containers in well ventilated rooms at room temperature secured from falling down.

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**Specific end uses**

Not applicable.

**SECTION 8: Exposure Controls/Personal Protection**

**Control parameters**

**DNEL/DMEL and PNEC-Values:**

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 1.2 mg/m<sup>3</sup>

Workers - Hazard via dermal route-Systemic effects-DNEL (Derived No Effect Level): 0.2 mg/kg bw/day

General Population - Hazard via oral route-Systemic effects-DNEL (Derived No Effect Level): 0.076 mg/kg bw/day

Hazard for aquatic organisms- PNEC aqua (freshwater): 0 mg/L

Hazard for aquatic organisms- PNEC aqua (marine water): 0 mg/L

Hazard for aquatic organisms- PNEC aqua (intermittent releases): 0.002 mg/L

Hazard for aquatic organisms- PNEC STP: 76 mg/L

Hazard for aquatic organisms- PNEC sediment (freshwater): 0.003 mg/kg sediment dw

Hazard for aquatic organisms- PNEC sediment (marine water): 0 mg/kg sediment dw

Hazard for terrestrial organisms-PNEC soil: 0 mg/kg soil dw

Hazard for predators-PNEC oral: 1.3 mg/kg food

**Exposure controls**

**Appropriate engineering controls**

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:**

Close-fitting protective goggles (e.g. closed goggles).

**Hand protection:**

Glove material for example, butyl-rubber

Material thickness 0.5 mm

Break through time >= 480 min

Glove material for example, Fluorinated rubber (Viton)

Material thickness 0.4 mm

Break through time >= 480 min

**Body protection:**

Suitable protective clothing - Use disposable clothing if appropriate.

**Respiratory protection:**

In case of vapors/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class for the

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respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

**Thermal hazards:**

Wear suitable protective clothing to prevent heat.

**Environmental exposure controls:**

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

**SECTION 9: Physical and Chemical Properties****Information on basic physical and chemical properties**

a) Appearance	Colorless clear liquid
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/ range	< -20°C
f) Boiling point/range	238.5°C (97.1kPa)
g) Flash point	93.9 - 94.9 °C @ 20 kPa
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	3.9 - 5.1 hPa @ 20 - 25 °C
l) Vapor density	no data available
m) Relative density	0.913(20 °C)
n) Water solubility	200 µg/L @ 20 °C and pH 7.23 - 7.25
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	250 °C
q) Decomposition temperature	180 °C
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
u) Molecular Formula	C <sub>13</sub> H <sub>26</sub> O <sub>2</sub> Si
v) Molecular Weight	242.43

**Other safety information**

no data available

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**SECTION 10: Stability And Reactivity****Reactivity**

The substance is stable under normal storage and handling conditions.

**Chemical stability**

Stable at room temperature in closed containers under normal storage and handling conditions.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

Incompatible materials. Formation of flammable or explosive vapor/air mixtures possible.

**Incompatible materials**

Not available.

**Hazardous decomposition products**

Silicon dioxide, carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological Information****Information on toxicological effects**

Acute toxicity:

LD50(Oral, Rat): > 2 500 mg/kg bw

LD50(Dermal, Rat): > 2 000 mg/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

**SECTION 12: Ecological Effects****Toxicity**

Toxicity to microorganisms: NOEC (3 h) 100 mg/L

**Persistence and degradability**

no data available

**Bioaccumulative potential**

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no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

## SECTION 13: Disposal considerations

**Waste treatment methods**

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

## SECTION 14: Transport Information

**UN number**

ADR/RID: 3082

IMDG: 3082

IATA: 3082

**UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Passenger Aircraft: Not permitted for transport

**Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

**Packing group**

ADR/RID: III

IMDG: III

IATA: III

**Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

**Special precautions for user**

no data available

## SECTION 15: Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

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Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: Other Information**

**Further information**

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.